



***** Baseline Scenario: X-747H WBS Dictionary *****
U.S. DEPARTMENT OF ENERGY
WORK BREAKDOWN STRUCTURE DICTIONARY
PART II - ELEMENT DEFINITION

1. PROJECT TITLE/PARTICIPANT Environmental Management/Bechtel Jacobs Company LLC		2. DATE 01/08/2004	3. IDENTIFICATION NUMBER DE-AC05-98OR22700
4. WBS ELEMENT CODE 1.12.05.01.03.01		5. WBS ELEMENT TITLE PORTS X-747H Scrap Metal Disposal	
6. INDEX LINE NO.	7. REVISION NO. AND AUTHORIZATION N/A		8. DATE N/A
9. APPROVED CHANGES N/A			
10. SYSTEM DESIGN DESCRIPTION			11. BUDGET AND REPORTING NUMBER
12. ELEMENT TASK DESCRIPTION 12. ELEMENT TASK DESCRIPTION INTRODUCTION The X-747H Northwest Surplus and Scrap Yard encompasses an area of approximately 295,200 square feet located at the Portsmouth Gaseous Diffusion Plant (PORTS GDP). The scrap yard was utilized for storage of miscellaneous and diffusion plant process scrap metal/equipment, which was decontaminated at the X-705/X-700 Decontamination Facilities. The scrap metal in the X-747H storage yard consists principally of X31 and X33 diffusion plant components and pieces of these components. The purpose of the Ports X-747H Scrap Yard Disposition project is to reduce the overall DOE mortgage and the radiological risk to the public and the environment. In addition, X-747H site is a deferred remedial action unit. The removal of the scrap metal is needed to facilitate deferred unit assessment/remediation. The X-747H Scrap Yard Disposition project will prepare, package, and disposal of 6,000 tons of low level contaminated scrap metal located at the X-747H Scrap Yard. The project end state will occur upon removal and disposal of all scrap metal from the X-747H Scrap Yard proper, the X747H scrap Yard site may be utilized during GDP D&D activities, but will be operated under a separate D&D subproject (if desired). LOGIC RELATIONSHIPS 05.04.02.04 - Quad IV Deferred Units - Removal of scrap metal is a predecessor to performing any soil remediation at X-747H. SCOPE DESCRIPTION Release Sites and Facilities Assessments to be completed: None Actions to be completed: None PAST AND FUTURE ACCOMPLISHMENTS: Past Accomplishments: Project Startup Size reduced - 3,200 Tons of low level contaminated scrap metal. Containerized - 3,200 Tons of low level contaminated scrap metal (~1000 tons will be performed in FY03 as schedule carryover scope). Dispositioned - 1,300 Tons of low level contaminated scrap metal.			



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12. ELEMENT TASK DESCRIPTION (Continued) Disposition - 4,700 Tons of low level contaminated scrap metal. Project Close Out PERFORMANCE METRICS FY03 - Complete size reduction of 1,600 additional tons (4,800 tons total) - Start shipment, for disposal, by rail - Ship for disposal 2,700 tons (4,000 tons total) Out Years - Complete ship for disposal; 2,000 tons (6,000 tons total) - Complete Project (FY04) SCOPE: The scope of this subproject consist of the following: - Project Management & Support - Size Reduction & Containerization - Waste Disposal (DOE direct) Project Management & Support (WBS 05.01.03.01.01) Project Management - includes subcontract award/management, planning, baseline development/management, cost/schedule performance, progress reporting, technical coordination, records management, P/QA oversight, safety oversight, functional group coordination, client/regulatory interface, document review, and response to what-if request. Project Support - Procure PPE and consumables, site infrastructure/support services (sewage, power, snow removal, copier/fax); characterization of material; X-752 equipment position changes for air flow requirements; labor relations, garage services for heavy equipment, work force transition, shipping/receiving support, pre-shipment carpentry work, radiological surveys, air monitoring, up keep of berthold monitors, industrial hygiene support, RWP preparations and signage maintenance. Maintenance of QA plan and procedures, conduct field assessments, conduct required recurring training, training record maintenance, laundry services, NDA requirements, fueling services, road maintenance, laboratory analysis, respirator support, ambient air monitoring support (station 605H); records management, photo support, sampling and QA, laboratory support, walk downs and USQD support, NCS evaluations, NCSA preparations and maintenance; sampling analysis/result package reviews and maintenance; waste disposition plan for contaminated materials, preparation of monthly status letter; corrective maintenance. Procurement support for commodities and services. Waste Size Reduction (WBS 05.01.03.01.02) Size reduce 2,800 tons of low level contaminated scrap metal. The majority of the size reduction will be accomplished using an excavator with hydraulic shear. Torch cutting will be utilized, as required, to support shearing operations. This element also			



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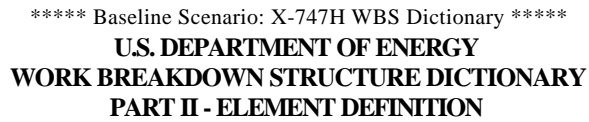
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12. ELEMENT TASK DESCRIPTION (Continued) air compressors, wooden material, carts, etc.) for packaging. Prepare, package, and ship for disposal low-level contaminated scrap metal at the X-747H Scrap Yard. - Containerized - 2,800 Tons of low-level contaminated scrap metal (note, there will be an additional 1,212 tons associated with FY02 carryover, BCP will be processed in early FY03). - Ship for disposal - 4,700 Tons of low-level contaminated scrap metal. The baseline estimate assumes shipping 1900 tones by truck and the remainder by rail, due to the time required to establish rail shipping. Procurement - The following equipment will be procure to reduce risk, increase productivity and reduce overall cost: - 25 - Small intermodal containers, 20'x8'x2' (an assessment is being performed in late FY02 to determine the most cost effective method of shipment, which may change the requirement for intermodal containers). The proposed small intermodal containers will reduce worker risk by allowing the filling of the containers using a front-end loader versus hand loading. The smaller intermodal containers will also support rail shipment, while not requiring the purchase of additional equipment (large forklift). -1 - Bobcat with the capability to grab and load metal into containers. Waste Disposal (WBS 05.01.03.01.03) The disposal of low-level contaminated X-747H scrap metal off-site (DOE direct scope). - Disposition - 3,300 Tons of low-level contaminated scrap metal (note, there will be an additional 1,400 tons associated with FY02 carryover, BCP will be processed in early FY03). SAFETY AND HEALTH WORK PERFORMANCE It is the core value of Bechtel Jacobs Company that the safety and health of every worker and the public at large, and our environment, are the most important assets we are entrusted to protect. To accomplish this, an Integrated Safety Management System (ISMS), based on DOE's ISMS has been implemented that incorporates the five core functions and is based on the seven guiding principles. The objective of ISMS is to systematically integrate safety and environmental protection into the planning and execution of all work activities. The term safety encompasses Nuclear Safety, Industrial Safety, Industrial Hygiene, Occupational Health, Health Physics, and environmental issues. ISMS requirements flow-down to Bechtel Jacobs Company subcontractors. The Five Core Functions are: (1) Define the scope of work, (2) Analyze hazards, (3) Develop and implement hazard controls, (4) Perform work within controls, and (5) Provide feedback and continuous improvement. The Seven Guiding Principles are (1) Line Management Responsibility for Safety, (2) Clear Roles and Responsibilities, (3) Competence commensurate with responsibility, (4) Balanced Priorities, (5) Identification of Safety Standards and Requirements, (6) Hazard Control Tailored to Work Being Performed, and (7) Operations Authorization. Conduct of Operations and Integrated Safety Management are incorporated into project start-up activities through the Readiness Evaluation procedure. Based on the hazards categorization, a graded approach ranging from an Internal Field Evaluation to a full Operational Readiness Review is prescribed. A project team consisting of multiple disciplines evaluates the work process and associated hazards, and completes a preliminary hazards assessment. The hazards assessment procedure provides the tool for a systematic and consistent evaluation of industrial, radiological, nuclear and environmental hazards. The disciplines represented on the team include operations, environmental compliance, industrial safety, radiological control, nuclear criticality safety, design			



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12. ELEMENT TASK DESCRIPTION (Continued) <p>Additionally, routine "Walk Throughs" are conducted by project staff to identify hazards and safety concerns. A Safety Advocate program is implemented to provide operations personnel an avenue to identify, report and correct, if possible, their safety concerns. Routine monitoring (airborne and surface contamination) of the work environment is conducted by radiological control personnel and reported to line management to assist in measuring and improving work and housekeeping practices. Other standard safety parameters, such as first aid cases, lost time incidents and OSHA reportable incidents are monitored and promulgated monthly by project.</p> <p>Safety first is the M&I Contractor core value and is fundamental to every work activity. All accidents are preventable and the contractor strives to achieve "Zero Accident" performance on all jobs. Safety is everyone's responsibility this includes worksite safety, safety of fellow workers, personal safety, public safety, and protection of the environment.</p> <p>Wide ranges of formal and informal processes are in place for identification and analysis of the hazards associated with performing work at PORTS. These processes range from formal, detailed analytical hazard analysis, to informal pre-job assessments by the individuals actually performing the work. Programs exist which require specific hazard identification and analysis for each facility at PORTS. The Integrated Safety Management Process describes the process for implementing S&H for Environmental Management activities at PORTS. A set of Work Smart Standards has been established and is contractually binding for all Environmental Management activities performed at PORTS. A multi-discipline team of managers, hourly workers, and S&H professionals determined applicable standards. All known existing hazards were considered and applicable standards were selected from federal, state, DOE, and national consensus standards and requirements. Specific S&H disciplines (e.g., Facility Safety, Fire Protection, and Industrial Hygiene) maintain established individual programs for addressing hazards within their particular areas of expertise. Various processes exist at all levels for ensuring that work has been properly planned and authorized before it is begun. Complex, large-scale activities may be subjected to formal Operational Readiness Reviews, while routine, low-hazard tasks receive less formal analysis. Different S&H discipline programs to ensure operational readiness (e.g., Facility Safety - Unresolved Safety Question Determination). Computerized work planning processes assist planners in considering/addressing the entire range of safety and health hazards associated with work at PORTS. The workers perform the final readiness check as they examine the equipment, permits, and conditions of the work site immediately prior to beginning work. Workers also continually remain alert to changing conditions and unidentified hazards as the job's progress. They are expected to bring issues to the attention of their supervisor. Trained S&H professionals provide field oversight of EM program activities and are alert for unforeseen hazards as well. The processes for addressing feedback and for continually improving S&H programs and activities are integral parts of the Integrated Safety Management System Process and are integral parts of the Project Delivery Process, which governs all EM activities at PORTS. Feedback received from external assessments, self-assessments, the lessons learned program, incident investigations, and formally submitted employee concerns and from day-to-day interaction with employees is given appropriate consideration. Based on information (feedback) from those sources, corrective actions are initiated with the goal of continually improving the safety and health of the public and employees.</p>			

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